

REMARKS

Applicant is submitting another Information Disclosure Statement because a web site was found and Applicant believes that page 4 is relevant because it has a backwards release feature. It mentions Cubco and Miller bindings.

Applicant has accepted the allowable claims from the last Office Action and added new claims 21-29 to include a toe binding version of the allowable claims, as shown in Fig. 14. Claims 26, 27 describe a reverse release bias system as exemplified in Fig. 13. All the rejected claims have been amended to a gas actuated version.

A Continuation-in-Part application is being filed to address the canceled claims with both further argument and new matter. Applicant respectfully requests a Notice of Allowance.

Respectfully Submitted,

Date: _____

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MARKED UP CLAIMS

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1. (Amended) A ski binding release system comprising:
a track for receiving a ski binding member;
5 a remote transmitter;
a receiver mountable on a ski with an actuator connected to the track;
wherein the remote transmitter activates the receiver which in turn activates
the actuator to move the track, thereby moving the ski binding member;
wherein the track further comprises a flat rigid member having a forward and
10 a rear anchor for attachment to a ski;
wherein the flat rigid member slides in the anchors;
wherein the flat rigid member is controlled by the actuator; and
wherein the actuator further comprises a ~~spring mechanism having a housing~~
~~containing a main spring~~ gas chamber powering a rod connected to the
15 track and a receiver to receive the remote signal and release the actuator
from a ski position to a release position.

2. (No Change) An improvement to a ski binding release system, said ski
binding release system having a toe piece and a heel piece to hold a boot, the
20 improvement comprising:
a track connected to the heel piece;
an actuator connected to the track which increases a mounting distance
between the toe piece and the heel piece on demand from a remote
signal;
25 wherein the actuator further comprises a compressed gas cylinder having a
piston connected to the track; and
wherein the compressed gas cylinder further comprises a plug which is
connected to a linkage, wherein a receiver receives the remote signal and
powers the linkage to unplug from the compressed gas cylinder, thereby

allowing a spring to move the actuator from a ski position to a release position.

3. (Amended) A ski binding release system comprising:

5 a toe and a heel piece;

a mechanism having ~~ana~~ gas actuator to enlarge a mounting distance between the toe and the heel piece on demand from a remote signal;

said mechanism having a ~~single~~-housing which contains a connector to a track and having a ~~spring~~-gas chamber which releaseably biases the track

10 against a binding member, and having a receiver to receive a remote signal to release ~~the spring~~ a gas pressure from the gas chamber; and

said track suited to receive either the toe or the heel piece.

4. (Amended) A ski binding release system comprising:

15 a toe and a heel piece designed to have a mounting distance therebetween to secure a ski boot;

an extension mechanism to release the ski boot by enlarging the mounting distance on demand from a remote signal;

20 said extension mechanism having a ~~single~~-housing to contain a ~~spring~~gas chamber, a connector to a track which is biased by the ~~spring~~gas chamber, and a receiver which controls a release of ~~the spring~~ a gas pressure from the gas chamber; and

25 wherein the track further comprises a flat rigid member having a forward and a rear anchor for attachment to a ski, wherein the flat rigid member slides in the anchors controlled by the actuator.

5. (Amended) An improvement to a ski binding release system, said ski binding release system having a toe piece and a heel piece to hold a boot, the improvement comprising:

30 a track connected to the toe piece;

an actuator connected to the track which increases a mounting distance between the toe piece and the heel piece on demand from a remote signal;

wherein the actuator further comprises a ~~single~~-housing containing a ~~spring~~ gas loaded piston having a ski position with the ~~spring gas~~ compressed, and a release position with the ~~spring gas~~ released, said piston having a locking groove, ~~a locking pin removably engagable in the locking groove, and a receiver to receive the a remote signal and power an electronic device to disengage the locking pin, release the gas,~~ thereby releasing the ski boot by causing the toe piece to move to a larger distance from the heel piece.

6. (Canceled by prior Amendment)

7. (Canceled by prior Amendment)

8. (Cancel) ~~The improvement of claim 3, wherein the housing further comprises a sliding shaft having a groove, a locking pin pivotally engaged in the groove and an electronically activated trigger to release the locking pin when the receiver powers a solenoid to move the trigger.~~

9. (Amended) The ~~improvement~~apparatus of claim 8 further comprising a transmitter contained in a ski pole to activate the receiver.

10. (Amended) The ~~improvement~~apparatus of claim 9, wherein the transmitter further comprises a safety switch to prevent an accidental transmission.

11. (Amended) The ~~improvement~~apparatus of claim 3 further comprising a mounting plate to house the toe piece, the track, the heel piece and the actuator, said mounting plate having a hole for mounting to a ski.

12. (Canceled by prior Amendment)

13. (Canceled by prior Amendment)

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14. (No Change) The improvement of claim 2, wherein the plug blocks an outlet tube which emits a loud noise upon release of the plug.

15. (No Change) The improvement of claim 2, wherein a gas in the
10 compressed gas cylinder further comprises a color to assist locating a lost ski in powder upon the release of the compressed gas.

16. (No Change) The improvement of claim 2 further comprising a CO₂
15 cartridge connected to the compressed gas cylinder to provide a source of compressed gas.

17. (No change) The improvement of claim 16 further comprising a CO₂ cartridge housing and puncture mechanism to charge the compressed gas cylinder.

20 18. (Canceled by prior Amendment)

19. (Canceled by prior Amendment)

20. ~~(Cancel) The system of claim 5 further comprising a wedge to receive a
25 lever which can cock the spring loaded piston to the ski position.~~

21. (New) An improvement to a ski binding release system, said ski binding
release system having a toe piece and a heel piece to hold a boot, the improvement
comprising:
30 a track connected to the toe piece;

an actuator connected to the track which increases a mounting distance between the toe piece and the heel piece on demand from a remote signal;
wherein the actuator further comprises a compressed gas cylinder having a piston connected to the track; and
wherein the compressed gas cylinder further comprises a plug which is connected to a linkage, wherein a receiver receives the remote signal and powers the linkage to unplug from the compressed gas cylinder, thereby allowing a spring to move the actuator from a ski position to a release position.

22. (New) The improvement of claim 21, wherein the plug blocks an outlet tube which emits a loud noise upon release of the plug.

23. (New) The improvement of claim 21, wherein a gas in the compressed gas cylinder further comprises a color to assist locating a lost ski in powder upon the release of the compressed gas.

24. (New) The improvement of claim 21 further comprising a CO₂ cartridge connected to the compressed gas cylinder to provide a source of compressed gas.

25. (New) The improvement of claim 24 further comprising a CO₂ cartridge housing and puncture mechanism to charge the compressed gas cylinder.

26. (New) A ski binding release system comprising:
a toe and a heel piece;
a mechanism having an actuator to enlarge a mounting distance between the toe and the heel piece on demand from a remote signal; and
said mechanism having a piston which is spring biased to maintain the mounting distance in a ski position and a gas source to bias the piston

to a release position when a ski mounted receiver receives a remote signal.

5 27. (New) The apparatus of claim 26 further comprising a track suited to receive either the toe or the heel piece, said track connected to the mechanism.

28. (New) A ski binding release system comprising:
a toe and a heel piece;
10 a mechanism having an actuator to enlarge a mounting distance between the toe and the heel piece on demand from a remote signal; and
said mechanism having a piston which is gas biased to maintain the mounting distance in a ski position and spring biased to a release position when a ski mounted receiver receives a remote signal.

15 29. (New) The apparatus of claim 28 further comprising a track suited to receive either the toe or the heel piece, said track connected to the mechanism.